

GenCore version 5.1.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 1, 2005, 13:06:53 ; Search time 120 Seconds

(without alignments)
3461.738 Million cell updates/sec

Title: US-10-659-782A-11

Perfect score: 1030

Sequence: 1 actctggatgggtgctgttt.....tggcagcagaggggtgggg 579

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 4004546

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

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-Q=/cgn2_1/USPTO_spool_p/US10659782/runat_01022005_130351_14247/app_query.fasta_1.775
-DB=A_Geneseq_23Sep04 -QFMT=fastan -SUFFIX=rag -MINMATCH=0.1 -LOOPEXT=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOALIGN=200 -THR_SCORE=pcr -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US10659782@cgn_1_1_224 @runat_01022005_130351_14247 -NCFU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THRAD=10 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : A_Geneseq_23Sep04:*

1: Geneseqp1980s:*

2: Geneseqp1990s:*

3: Geneseqp2000s:*

4: Geneseqp2001s:*

5: Geneseqp2002s:*

6: Geneseqp2003as:*

7: Geneseqp2003bs:*

8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	379	36.8	126	AAM40676	Aam40676 Human pol
2	326	31.7	91	Aae33410	Aae33410 Human exo
3	326	31.7	117	Aaw87991	Aaw87991 Protein d
4	326	31.7	117	AAE87236	Aay87236 Human sig
5	326	31.7	117	AAB20101	Aab20101 Zs1g33 pr
6	326	31.7	117	AAE20101	Aab26649 Human zsi
7	326	31.7	117	AAE38890	Aam38890 Human pol
8	326	31.7	117	AAE60511	Aab60511 Human ghr
9	326	31.7	117	ABE78319	Abb78319 Amino aci
10	326	31.7	117	AAE23838	Aae23838 Human zsi

11	326	31.7	117	5	AAE15883	Human zsi
12	326	31.7	117	6	ABU58046	Human PRO
13	326	31.7	117	6	ABU59124	Novel hum
14	326	31.7	117	6	ABU82636	Human sec
15	326	31.7	117	6	ABO17836	Novel hum
16	326	31.7	117	6	ABU60555	Human sec
17	326	31.7	117	6	ABU13937	Human PRO
18	326	31.7	117	6	ABU81090	Human PRO
19	326	31.7	117	6	ABU72522	Novel hum
20	326	31.7	117	6	ABU66790	Human PRO
21	326	31.7	117	6	ABU59871	Novel sec
22	326	31.7	117	6	ABU59271	Human sec
23	326	31.7	117	6	ABO25968	Human PRO
24	326	31.7	117	6	ABO25061	Human sec
25	326	31.7	117	6	ABU58977	Human sec
26	326	31.7	117	6	ABU92355	Novel hum
27	326	31.7	117	6	AAE33409	Human pre
28	326	31.7	117	6	ABU59420	Novel hum
29	326	31.7	117	6	ABU67066	Human sec
30	326	31.7	117	6	ABU92186	Novel hum
31	326	31.7	117	6	ABU10892	Human PRO
32	326	31.7	117	6	ABU81644	Novel hum
33	326	31.7	117	6	ABU88583	Human sec
34	326	31.7	117	6	ABO34097	Human PRO
35	326	31.7	117	6	ADA45961	Novel hum
36	326	31.7	117	6	ADA76392	Human PRO
37	326	31.7	117	6	ADA19042	Human PRO
38	326	31.7	117	6	ADA61665	Homo sapi
39	326	31.7	117	6	ADB19450	Novel hum
40	326	31.7	117	6	ADB27991	Human PRO
41	326	31.7	117	6	ADA86470	Novel hum
42	326	31.7	117	6	ADB16034	Human PRO
43	326	31.7	117	6	ADA37779	Human sec
44	326	31.7	117	6	ADA47820	Human PRO
45	326	31.7	117	6	ADA21465	Human sec

ALIGNMENTS

RESULT 1

AAM40676

ID AAM40676 standard; protein; 126 AA.

AC AAM40676;

DT 22-OCT-2001 (first entry)

DE Human polypeptide SEQ ID NO 5607.

XX

KW Human; notropic; immunosuppressant; cytostatic; gene therapy; cancer;

KW peripheral nervous system; neuropathy; central nervous system; CNS;

KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;

KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;

KW chemokineic; thrombolytic; drug screening; arthritis; inflammation;

KW leukaemia.

XX

XX Homo sapiens.

XX OS

XX WO20015312-A1.

XX

PD 26-JUL-2001.

XX

XX 26-DEC-2000; 2000WO-US034263.

XX

XX 23-DEC-1999; 99US-00471275.

XX 21-JAN-2000; 2000US-0048725.

XX 25-APR-2000; 2000US-0052317.

XX 19-JUL-2000; 2000US-00620312.

XX 03-AUG-2000; 2000US-00653450.

XX 14-SEP-2000; 2000US-00662191.

XX 19-OCT-2000; 2000US-00693036.

XX 29-NOV-2000; 2000US-00727344.

XX

QY 292 CACGAGGCGCATCTCGGGCTTCAGTCTTCTCCAGAGCACAAAGAGACTCTGGGTCTGAC 351
 DB 37 -----
 QY 352 CTCACGTGTTTCTGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTCTCC 411
 DB 37 -----
 QY 412 AGCAGAGAAGGAGTCCGAAGACCCACAGCTCGAGCCCGAGCTCTAGCAGGCT 471
 DB 38 -----ArgLysGluSerLysProAlaLysLeuGlnProAlaLeuAlaGlyT 56
 QY 472 GGCTCCGCGGAGAGTGAAGTCAAGCAGAGAGGGGCGAGAGTGAAGTCCG 530
 DB 56 rpleuargProGluaspGlyGlyGlnAlaGluaspGluLeuGluValArg 75

RESULT 3
 AAW87991
 ID AAW87991 standard; protein; 117 AA.
 AC AAW87991;
 DT 07-APR-1999 (first entry)
 XX Protein designated zsig33.
 DE
 XX Zsig33; gastric motility; gastrointestinal inflammation; reflux disease;
 KW nutrient absorption regulation; obesity; metabolic disorder.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..23 /note= "signal peptide"
 FT Protein 24..117 /note= "mature protein"
 FT
 XX W09842840-A1.
 PN
 PD 01-OCT-1998.
 XX
 XX 23-MAR-1998; 98WO-US005620.
 XX
 XX 24-MAR-1997; 97US-0041102P.
 PR 24-MAR-1997; 97US-00822897.
 XX
 XX (ZYMO) ZYMOGENETICS INC.
 XX
 XX Sheppard PO, Deisher TA;
 PI
 XX WPI; 1999-070071/06.
 DR
 DR N-PSDB; AAX04550.
 XX
 XX Human polypeptide having homology to motilin, zsig33 - useful e.g. to
 PT treat gastrointestinal motility disorders, obesity etc. and to identify
 PT antagonists to treat gastrointestinal hypermotility.
 XX
 XX Claim 13; Page 55-56; 69pp; English.
 XX
 CC The present sequence represents a protein designated Zsig33. The nucleic
 CC acids are strongly expressed in stomach tissue. The polypeptide (or
 CC allelic variants/orthologs) can be used to stimulate gastric motility,
 CC measured as increased transit time or gastric emptying of an ingested
 CC substance in mammals. The products are used to treat disorders associated
 CC with gastrointestinal cell contractility, secretion of digestive
 CC enzymes/acids, gastrointestinal motility, recruitment of digestive
 CC enzymes, gastrointestinal inflammation, reflux disease and nutrient
 CC absorption regulation. Zsig33 polypeptides may also be important
 CC neurologically, since the family of gut-brain peptides to which the
 CC homologous protein motilin belongs has been associated with neurological
 CC and CNS functions. They may therefore be used e.g. to regulate satiety or
 CC treat obesity and other metabolic disorders where neurological feedback

CC modulates nutritional absorption. They are useful to identify zsig33
 CC agonists, antagonists and ligands and to produce antibodies
 XX
 SQ Sequence 117 AA;

Alignment Scores:
 Pred. No.: 4,93e-24 Length: 117
 Score: 326.00 Matches: 74
 Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 2 Gaps: 1

US-10-659-782A-11 (1-579) x AAW87991 (1-117)

QY 112 ATGCCCTCCCGAGGACGCTCTGACGCTCTCTGCTCTCGGCATGCTCTGGTGGACTTG 171
 DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 QY 172 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACTCCC 231
 DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 291
 DB 37 ----- 37
 QY 292 CAGCAGCGCCATCTCTGGGCTTCACTTCTCCAGAGCACAAAGAGACTCTGGGTCTGAC 351
 DB 37 ----- 37
 QY 352 CTCACGTGTTTCTGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTCTCC 411
 DB 37 ----- 37
 QY 412 AGCAGAGAAAGGAGTCCGAAGAGCCAGCAGCCAGCTCGAGCCCGAGCTCTAGCAGGCT 471
 DB 38 -----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
 QY 472 GGCTCCGCGGAGAGTGAAGTCAAGCAGAGAGGGGCGAGAGTGAAGTCCG 530
 DB 56 rpleuargProGluaspGlyGlyGlnAlaGluaspGluLeuGluValArg 75

RESULT 4
 AAY87236
 ID AAY87236 standard; protein; 117 AA.
 XX
 AC AAY87236;
 XX
 DT 11-MAY-2000 (first entry)
 XX
 DE Human signal peptide containing protein HSPB-13 SEQ ID NO:13.
 XX

Human; signal peptide-containing protein; HSPB; diagnosis; cancer;
 inflammation; cardiovascular disease; anticancer; anti-inflammatory;
 antimicrobial; neurotropic; neuroprotective; cardiovascular; hepatocytic;
 antiasthmatic; gene therapy; cell proliferation; neurological disorder;
 reproductive disorder; developmental disorder; arteriosclerosis;
 cirrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;
 asthma; Crohn's disease; infection; Alzheimer's disease; schizophrenia;
 Parkinson's disease; Huntington's disease; muscular defect;
 muscular dystrophy.

OS Homo sapiens.
 XX
 PN W0200000610-A2.
 XX
 PD 06-JAN-2000.
 XX
 PF 25-JUN-1999; 99WO-US014484.
 XX
 PR 26-JUN-1998; 98US-0090762P.
 PR 31-JUL-1998; 98US-0094983P.

PR 01-OCT-1998; 98US-0102686P.
XX 11-DEC-1998; 98US-0112129P.
PA (INCY-) INCYTE PHARM INC.
XX Lal P, Tang YT, Gorgone GA, Corley NC, Guegler KJ, Baughn MR;
PI Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL;
PI Bandman O;
XX WPI: 2000-160673/14.
DR N-PSDB; AA298121.
XX
PT New human signal peptide-containing proteins useful in treatment,
PT prevention and diagnosis of e.g. cancer, inflammation and cardiovascular
PT disease.
XX
PS Claim 1; Page 168-169; 327pp; English.
XX
CC AA298109 to AA298242 encode AA2987224 to AA2987357 which represent the
CC human signal peptide-containing proteins HSP-1 to HSP-134. HSPs have
CC anticancer, anti-inflammatory, antimicrobial, nootropic, hepatotropic,
CC neuroprotective, cardiovascular and antiasthmatic activities, and can be
CC used in gene therapy. HSPs can be used to treat or prevent disorders
CC associated with decreased activity or function of HSP. Antagonists of
CC HSP are used to treat or prevent disorders associated with increased
CC activity or function of HSP. Such diseases include cell proliferation
CC (including cancer), inflammation, cardiovascular, neurological,
CC reproductive or developmental disorders (e.g. arteriosclerosis,
CC cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia,
CC asthma, Crohn's disease, microbial or other infections, congestive or
CC ischaemic heart disease, Alzheimer's, Parkinson's or Huntington's
CC diseases, schizophrenia, ovulatory defects, muscular dystrophy). HSP
CC nucleic acids can be used for the recombinant production of HSP, for
CC detecting HSP in standard hybridisation and amplification assays (for
CC diagnosis and monitoring), in gene therapy, as antisense, triplex-forming
CC or ribozyme therapeutics, for detecting related sequences or genetic
CC variations, and for chromosomal mapping. HSP are also used to raise
CC specific antibodies (Ab) and to screen for agonists and antagonists
CC (potential therapeutic agents). Ab are used to diagnose, or monitor, HSP
CC -related diseases (in usual immunoassays), as therapeutic antagonists, in
CC competitive drug screens, and for purification of HSP from natural
CC sources
XX
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4,936-24 Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 0
Query Match: 31.65% Indels: 66
DB: 3 Gaps: 1

US-10-659-782A-11 (1-579) x AA297236 (1-117)

QY 112 ATGCGCTCCCGAGGACCGCTGCGAGCTCTGCTCGGATGCTGCGTGGACTTG 171
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCATGGAGGCTCCAGCTTCTGAGCCCTGAAACACAGAGAGTCCAGGTGAGACTCCC 231
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 232 CACAAAGCCCAACATGTTGTTCCAGCCCTGCCACTTAGCACACGCTCTGACCTGGAG 291
Db 37 ----- 37
QY 292 CAGCAGCGCCATCTCGGGCTTCACTCTTCTCCAGAGACAAAGGACTCTGGGTCTGAC 351
Db 37 ----- 37
QY 352 CTCACCTGTTCTGGAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTCCCCCTCC 411

Db 37 ----- 37
QY 412 AGCAGAGAAAGAGTGCAGAGAGCCACAGCCAGCAAGCTGCAGCCCGAGCTTACGAGCT 471
Db 38 -----ArglyysGluSerLysLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGCCTCCGCCCGAAGATGAGGTCAAGCAGAGAGGGGCGAGAGGATGAACCTGGAAGTCCGG 530
Db 56 rpleuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75
RESULT 5
AAB20101
ID AAB20101 standard; protein; 117 AA.
XX
AC AAB20101;
XX
DT 23-APR-2001 (first entry)
XX
DE Zsig33 protein.
KW SGIP; zsig33; anorectic; antidiabetic; somatotropin; somatomedin-C;
KW nutritional absorption modulator; growth hormone secretagogue; therapy;
KW human.
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT Peptide 1..23 /label= Signal_peptide
FT Protein 24..117 /label= Mature_protein
FT Peptide 24..34 /label= SGIP peptide
FT /note= "this peptide is claimed in Claim 1"
XX
FN WO200100830-A1.
XX
PD 04-JAN-2001.
XX
PF 30-JUN-2000; 2000WO-US018306.
XX
PR 30-JUN-1999; 99US-00345157.
XX
PA (ZYMO) ZYMOGENETICS INC.
XX
PI Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
XX
DR WPI: 2001-123010/13.
DR N-PSDB; AAF30033.
XX
PT Novel variants of SGIP peptides for modulating contractility in duodenum
PT or jejunum tissue, pancreatic secretion of hormones and digestive
PT enzymes, inducing growth hormone secretion or modulating gastric
PT emptying.
XX
PS Disclosure; 54; 61pp; English.
XX
CC The present sequence is that of zsig33, a secreted protein with homology
CC to motilin (see AAB20102). Zsig33 is expressed at high levels in the
CC stomach, and at lower levels in the small intestine and pancreas. A novel
CC peptide fragment of zsig33, termed SGIP (see AAB20100), is claimed. SGIP
CC is a ligand for growth hormone secretagogue receptor, and is therefore
CC useful for modulating secretion of growth hormone and insulin like growth
CC factor 1. SGIP, and variant SGIP peptides, are used in claimed methods
CC for stimulating contractility in duodenum or jejunum tissue, modulating
CC pancreatic secretion of hormones and digestive enzymes, inducing growth
CC hormone secretion, and modulating gastric emptying
XX
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4,936-24 Length: 117
Score: 326.00 Matches: 74

Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x AAB20101 (1-117)

QY 112 ATGCCCTCCCGGAGCCCTGCGAGCTCTGCTCCGTCATGCTCTGGTGGACTTG 171
 DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 QY 172 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACTCCC 231
 DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGGAG 291
 DB 37 ----- 37
 QY 292 CAGCAGGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGTGTGAC 351
 DB 37 ----- 37
 QY 352 CTCACGTGTTCTTGGAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 411
 DB 37 ----- 37
 QY 412 AGCAGAGAAAGAGTTCGAAAGAGCCACAGCCAGCTGCGAGCCCGAGCTCTAGCAGGCT 471
 DB 38 ----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
 QY 472 GGTCCGCGGAGATGAGTCAAGCAGAGAGGGGCGAGAGTGAAGTCCGG 530
 DB 56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 6

AAB62649
 ID AAB62649 standard; protein; 117 AA.

XX AC AAB62649;

XX 23-JUL-2001 (first entry)

XX Human zsig33 polypeptide.

XX zsig33; signal transduction; hormone; enzyme; neural development;
 KW gastric contractility; nutrient uptake; digestive; pancreatic; human;
 KW insulin-like growth factor-I; growth hormone; bone; gastrointestinal;
 KW glucose; osteopathic; anorectic; vulnery; immunomodulator; GHS-R;
 KW G-protein coupled receptor.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

FT Peptide 24..37

FT /notes: "specifically claimed fragment that binds to the
 GHS-R"

XX PN WO200138355-A2.

XX PD 31-MAY-2001.

XX PF 22-NOV-2000; 2000WO-US032074.

XX PR 22-NOV-1999; 99US-0166765P.

XX PA (ZYMO) ZYMOGENETICS INC.

XX PI Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;

XX DR WPI; 2001-355879/37.

XX DR N-PSDB; AAF83678.

XX

PT Forming reversible peptide receptor complex for purifying cell and
 PT peptides, stimulating signal transduction and modulating hormone
 PT secretion, involves contacting a receptor with zsig33 polypeptide.
 XX
 PS
 SS
 XX Claim 1; Page 93-94; 111pp; English.

XX The invention relates to a method of forming a reversible peptide-
 CC receptor complex that involves providing an immobilized receptor, and
 CC contacting the receptor with a zsig33 peptide (comprising residues 24-37
 CC of AAB62649), where the receptor binds to the zsig33 peptide. The method
 CC is useful for purifying cells, purifying a peptide, stimulating signal
 CC transduction in a cell expressing a receptor. It is also useful for
 CC modulating secretion of hormones, neural development and/or utilization,
 CC gastric contractility, nutrient uptake, secretion of digestive and
 CC pancreatic enzymes and hormones, secretion of insulin-like growth factor
 CC -I, secretion of non-zsig33 proteins. It is useful for modulating growth
 CC hormone secretion in a mammal having a disease associated with abnormal
 CC levels of growth hormone, such as osteoporosis, bone repair, bone
 CC remodeling, low osteoblast levels, cartilage repair and remodeling,
 CC skeletal dysplasia, immune suppression, obesity, growth retardation,
 CC protein catabolic responses after surgery, cachexia, protein loss,
 CC dwarfism, wound healing and ovulation induction, treating a mammal having
 CC a metabolic disorder requiring neurological feedback, such as satiety
 CC regulation, glucose absorption and metabolism and neuropathy-associated
 CC gastrointestinal disorders, and stimulating glucose-induced insulin
 CC release in a mammal. The present sequence represents the human zsig33
 CC polypeptide, a peptide ligand for the G-protein coupled receptor, GHS-R
 XX Sequence 117 AA;

Alignment Scores:

Pred. No.: 4.93e-24 Length: 117
 Score: 326.00 Matches: 74
 Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x AAB62649 (1-117)

QY 112 ATGCCCTCCCGGAGCCCTGCGAGCTCTGCTCCGTCATGCTCTGGTGGACTTG 171
 DB 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 QY 172 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACAGAGAGTCCAGGTGAGACTCCC 231
 DB 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGGAG 291
 DB 37 ----- 37
 QY 292 CAGCAGGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGTGTGAC 351
 DB 37 ----- 37
 QY 352 CTCACGTGTTCTTGGAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 411
 DB 37 ----- 37
 QY 412 AGCAGAGAAAGAGTTCGAAAGAGCCACAGCCAGCTGCGAGCCCGAGCTCTAGCAGGCT 471
 DB 38 ----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
 QY 472 GGTCCGCGGAGATGAGTCAAGCAGAGAGGGGCGAGAGTGAAGTCCGG 530
 DB 56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75
 RESULT 7
 AAM38890
 ID AAM38890 standard; protein; 117 AA.
 XX
 AC AAM38890;

```

XX DT 22-OCT-2001 (first entry)
XX DE Human polypeptide SEQ ID NO 2035.
XX KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
XX KW peripheral nervous system; neuropathy; central nervous system; CNS;
XX KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
XX KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
XX KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
XX KW leukaemia.
XX OS Homo sapiens.
XX PN WO200153312-A1.
XX PD 26-JUL-2001.
XX PF 26-DEC-2000; 2000WO-US034263.
XX PR 23-DEC-1999; 99US-00471275.
XX PR 21-JAN-2000; 2000US-00488725.
XX PR 25-APR-2000; 2000US-00552317.
XX PR 20-JUN-2000; 2000US-00598042.
XX PR 19-JUL-2000; 2000US-00620312.
XX PR 03-AUG-2000; 2000US-00653450.
XX PR 14-SEP-2000; 2000US-00662191.
XX PR 19-OCT-2000; 2000US-00693036.
XX PR 29-NOV-2000; 2000US-00727344.
XX PA (HYSE-) HYSEQ INC.
XX PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
XX PI Wang J, Wang Z, Wehrman T, Xu C, Xue A, Yang Y, Zhang J, Zhao QA;
XX PI Zhou P, Goodrich R, Drmanac RT;
XX DR WPI; 2001-442253/47.
XX DR N-PSDB; AAI58046.
XX PT Novel nucleic acids and polypeptides, useful for treating disorders such
XX PT as central nervous system injuries.
XX PS Example 3; SEQ ID NO 2035; 10078pp; English.
XX CC The invention relates to human nucleic acids (AAI57798-AAI61369) and the
XX CC encoded polypeptides (AAI38642-AAI42213) with nootropic.
XX CC immunosuppressant and cytostatic activity. The polynucleotides are useful
XX CC in gene therapy. A composition containing a polypeptide or polynucleotide
XX CC of the invention may be used to treat diseases of the peripheral nervous
XX CC system, such as peripheral nervous injuries, peripheral neuropathy and
XX CC localised neuropathies and central nervous system diseases, such as
XX CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
XX CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
XX CC utilisation of the activities such as: immune system suppression,
XX CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
XX CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
XX CC assays for receptor activity, arthritis and inflammation, leukaemias and
XX CC C.N.S disorders. Note: The sequence data for this patent did not form
XX CC part of the printed specification
XX SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4,938-24 Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 66
Query Match: 31.65% Indels: 66
DB: 4 Gaps: 1

US-10-659-782a-11 (1-579) x AAI38890 (1-117)
QY 112 ATGCCCTCCCGAGGACCGCTGTGACGCTCTCTCGCATGCTTGGCTGGAGCTTG 171

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Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACACAGAGATCCAGGTGAGACCTCCC 231
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 232 CACAAGGCCCAACATGTTGTTCCAGCCCTGCCACTTTAGCAACACAGCTTCTGTGACCTGGAG 291
Db 37 ----- 37
QY 292 CAGCAGCGCATCTCTGGGCTTCTCTCCAGAGCACAAGGACTCTGGGTCTGTGAC 351
Db 37 ----- 37
QY 352 CTCACCTGTTTCTGGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC 411
Db 37 ----- 37
QY 412 AGCAGAGAAAGAGTCAAGAGCCACAGCCCAAGCTGCGAGCCCGAGCTCTAGCAGGCT 471
Db 38 -----ArgLysGluSerLysProAlaLysLeuGlnProAlaLeuAlaGlyT 56
QY 472 GGCTCCGCCCGAAGATGAGGTCAAGCAGAGAGGGGCGAGAGGATGAAGTGGAGTCCGG 530
Db 56 rpleuArgProGluAspGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 8
AAB60511
ID AAB60511 standard; protein; 117 AA.
XX AC AAB60511;
XX DT 24-APR-2001 (first entry)
XX DE Human ghrelin preproprotein, SEQ ID NO:5.
XX KW Growth hormone secretagogue; GHS; ghrelin; precursor; preproprotein;
XX KW calcium concentration elevation; infant growth disorder;
XX KW growth hormone deficiency.
XX OS Homo sapiens.
XX PN WO200107475-A1.
XX PD 01-FEB-2001.
XX PF 24-JUL-2000; 2000WO-JP004907.
XX PR 23-JUL-1999; 99JP-00210002.
XX PR 29-NOV-1999; 99JP-00338841.
XX PR 26-APR-2000; 2000JP-00126623.
XX PA (KANG/) KANGAWA K.
XX PI Kangawa K, Kojima M, Hosoda H, Matsuo H, Minamitake Y;
XX PI WPI; 2001-159704/16.
XX DR N-PSDB; AAF59645.
XX PT New peptide compounds which induce growth hormone secretion and elevate
XX PT cell calcium concentrations, useful in treatment and diagnosis of infant
XX PT growth disorders.
XX PS Claim 3; Page 182; 210pp; Japanese.
XX CC The invention relates to a novel peptide compound or its salt which
XX CC induces the secretion of growth hormone and/or elevates calcium ion
XX CC concentration in cells. The peptides are ghrelin homologues and are
XX CC characterised in that at least one amino acid has been substituted by a
XX CC modified amino acid and/or a non-amino acid compound. The invention also
XX CC encompasses the unmodified peptides; the DNA encoding the peptides;
XX CC vectors and host cells comprising such DNA; a method of producing the

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CC peptides comprising recombinant production, optionally followed by
CC chemical modification; an antibody specific for a peptide of the
CC invention; and an assay and kit for detecting the peptides. The peptides
CC of the invention are useful for treating and/or diagnosing diseases
CC caused by a deficiency in growth hormone expression or activity. In
CC particular, they are useful for promoting infant growth due to growth
CC hormone deficiency. The compounds of the invention are safe with no
CC accompanying side effects. The present sequence represents a ghrelin-type
CC growth hormone secretagogue (GHS) precursor protein of the invention
XX
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4,93e-24 Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 0
Query Match: 31.65% Indels: 66
DB: 4 Gaps: 1

US-10-659-782A-11 (1-579) x AAB60511 (1-117)

QY 112 ATGCGCTCCCGGAGGACCGCTCTCGAGCCTCTCTCGCATGCTCTGGTGGACTTG 171
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCATGGCAGGCTCCAGCTTCCTGAGCCTGGAACACAGAGATCCAGGTGAGACCTCCC 231
Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCAGCTCTGTGACCTGGAG 291
Db 37 ----- 37
QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 351
Db 37 ----- 37
QY 352 CTCACGTGTTCTCGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTTCC 411
Db 37 ----- 37
QY 412 AGCAGAGAAAGGAGTCCGAGAGCCACAGCCAGCTGCGAGCCCGAGCTCTAGCAGGCT 471
Db 38 -----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGCTCCGCGGAGATGGAGGTCAAGCAGAGGGGCGAGAGGATGAACCTGGAAGTCCGG 530
Db 56 rpleuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 9
ID ABB78319
XX ABB78319 standard; protein; 117 AA.
AC ABB78319;
XX

05-DEC-2002 (first entry)

Amino acid sequence of a human zsig33.

Short gastrointestinal peptide; SGIP; zsig33; motilin.

Homo sapiens.

Key Location/Qualifiers
FT Peptide 1..23 /note= "signal peptide"
FT Protein 24..119 /note= "mature protein"

US6420521-B1.

16-JUL-2002.

XX 30-JUN-2000; 2000US-00608810.
PF
XX
XX 30-JUN-1999; 99US-0141592P.
PR
XX
XX (ZYMO) ZYMOGENETICS INC.
PA
XX
XX Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
PI
XX
XX WPI; 2002-634794/68.
DR
XX
XX N-PSDB; ABV72214.
DR
XX
PT New Short Gastrointestinal Peptide, which has homology to motilin, useful
PT for preventing, diagnosing and treating gastrointestinal disorders.
XX
XX
PS Disclosure; Col 39-40; 23pp; English.
XX
XX The present sequence represents human zsig33. The specification describes
CC a short gastrointestinal peptide (SGIP), which is derived from zsig33.
CC SGIP has homology to motilin. The SGIP peptide may be used in the
CC prevention, diagnosis and treatment of diseases associated with
CC inappropriate SGIP expression. For example, SGIP may be used to treat
CC disorders associated with decreased expression by rectifying mutations or
CC deletions in a patient's genome that affect the activity of SGIP by
CC expressing inactive proteins or to supplement the patients own production
CC of SGIP. SGIP may also be used as an antigen in the production of
CC antibodies against SGIP and in assays to identify modulators of SGIP
CC expression and activity. The anti-SGIP antibodies, agonists and
CC antagonists may also be used to regulate expression and activity. The
CC anti-SGIP antibodies may also be used as diagnostic agents for detecting
CC the presence of SGIP in samples
XX

SQ Sequence 117 AA;

Alignment Scores:

Pred. No.: 4,93e-24 Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 0
Query Match: 31.65% Indels: 66
DB: 5 Gaps: 1

US-10-659-782A-11 (1-579) x ABB78319 (1-117)

QY 112 ATGCGCTCCCGGAGGACCGCTCTCGAGCCTCTCTCGCATGCTCTGGTGGACTTG 171
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCATGGCAGGCTCCAGCTTCCTGAGCCTGGAACACAGAGATCCAGGTGAGACCTCCC 231
Db 21 AlaMetAlaGlySerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCAGCTCTGTGACCTGGAG 291
Db 37 ----- 37
QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGTCTGAC 351
Db 37 ----- 37
QY 352 CTCACGTGTTCTCGAAGGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTTCC 411
Db 37 ----- 37
QY 412 AGCAGAGAAAGGAGTCCGAGAGCCACAGCCAGCTGCGAGCCCGAGCTCTAGCAGGCT 471
Db 38 -----ArgLysGluSerLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGCTCCGCGGAGATGGAGGTCAAGCAGAGGGGCGAGAGGATGAACCTGGAAGTCCGG 530
Db 56 rpleuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 10

CC The invention relates to zsig33-like peptides (ZS33LP) including zsig33-
 CC linker, zsig33-beta, zsig33-gamma, zsig33-delta and zsig33-epsilon.
 CC peptides and nucleic acid molecules encoding such zsig33-like peptides.
 CC ZS33LP peptides activate the immune system in boosting immunity to
 CC infectious diseases, treating immunocompromised patients such as human
 CC immunodeficiency virus (HIV) patients, in improving vaccines and in
 CC treatment of bacterial, viral, protozoal and fungal infections. Peptides
 CC of the invention are used to identify and isolate receptors involved in
 CC growth regulation in the liver, blood vessel formation and other
 CC developmental processes. They are useful for evaluating functions of
 CC hypothalamus-pituitary-adrenal axis, to modulate growth and/or
 CC preparations containing glucose and as adsorption enhancers for oral
 CC drugs which require fast nutrient action and to stimulate glucose-induced
 CC insulin release. They are also useful as research reagents for the
 CC expansion, differentiation, growth factor and hormone secretion and/or
 CC cell-cell interactions of tissues associated with gastrointestinal
 CC system, brain and central nervous system. These molecules are useful for
 CC treating dysfunction associated with contractile tissues or to suppress
 CC or enhance contractility in vivo and to treat gastrointestinal and growth
 CC related diseases. ZS33LP peptides, nucleic acids and/or antibodies are
 CC useful for treating disorders associated with gastrointestinal
 CC contractility, secretion of digestive enzymes, hormone and acids,
 CC secretion of hormones in the pancreas and/or brain, gastrointestinal
 CC motility, recruitment of digestive enzymes, inflammation and regulation
 CC of nutrient absorption. Sequences of the invention are useful in gene
 CC therapy. The present sequence is human zsig33 protein
 XX
 SQ Sequence 117 AA;

Alignment Scores:
 Pred. No.: 4, 93e-24 Length: 117
 Score: 326.00 Matches: 74
 Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: 5 Gaps: 1

US-10-659-782A-11 (1-579) x AAE15883 (1-117)

QY 112 ATGCGCTCCCGGAGGACCTCTGCGCTCTGCTCTGCGCTCTGCGCTGAGCTTG 171
 Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
 QY 172 GCATGGCAGGCTCCAGCTTCTGAGCCCTGAACACGAGAGTCCAGTGTGAGACTCCC 231
 Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37
 QY 232 CACAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACAGCTCTGTGACCTGGAG 291
 Db 37 ----- 37
 QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGCACAAAGGACTCTGGGCTGAC 351
 Db 37 ----- 37
 QY 352 CTCACCTGTTTTCGAAGGACATGGGGCTTAGAGTCTTAACAGACTGTTTCCCCCTTCC 411
 Db 37 ----- 37
 QY 412 ASCAGAGAAGAGTTCGAAGAGCCACGACCAAGCTGCAGCCCGAGCTCTAGCAGGCT 471
 Db 38 -----ArglyysGluSerlyysProProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
 QY 472 GGTCCGCGCGGAAGATGAGGTTCAGCAGAGAGGGGCGAGAGTGAAGTGAAGTCCGG 530
 Db 56 rpleuargProGluaspGlyGlyGlnAlaGluaspGluLeuGluValArg 75

RESULT 12
 ID ABUS8046
 XX ABUS8046 standard; protein; 117 AA.
 AC ABUS8046;

XX 14-APR-2003 (first entry)
 DT Human PRO polypeptide #78.
 XX
 DE Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;
 DE horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT;
 DE antibody-dependent enzyme mediated prodrug therapy.
 KW
 KW Homo sapiens.
 OS
 XX US2003027163-A1.
 PN
 PD 06-FEB-2003.
 XX
 XX 15-NOV-2001; 2001US-00997666.
 PF
 XX 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US020089.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088021P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 04-JUN-1998; 98US-0088028P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088030P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 04-JUN-1998; 98US-0088326P.
 PR 05-JUN-1998; 98US-0088167P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088217P.
 PR 09-JUN-1998; 98US-0088655P.
 PR 10-JUN-1998; 98US-0088734P.
 PR 10-JUN-1998; 98US-0088738P.
 PR 10-JUN-1998; 98US-0088742P.
 PR 10-JUN-1998; 98US-0088810P.
 PR 10-JUN-1998; 98US-0088824P.
 PR 10-JUN-1998; 98US-0088826P.
 PR 11-JUN-1998; 98US-0088858P.
 PR 11-JUN-1998; 98US-0088861P.
 PR 11-JUN-1998; 98US-0088876P.
 PR 12-JUN-1998; 98US-0089105P.
 PR 16-JUN-1998; 98US-0089440P.
 PR 16-JUN-1998; 98US-0089512P.
 PR 16-JUN-1998; 98US-0089514P.
 PR 17-JUN-1998; 98US-0089532P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089598P.
 PR 17-JUN-1998; 98US-0089599P.
 PR 17-JUN-1998; 98US-0089600P.
 PR 17-JUN-1998; 98US-0089653P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.
 PR 19-JUN-1998; 98US-0089947P.
 PR 19-JUN-1998; 98US-0089948P.
 PR 19-JUN-1998; 98US-0089952P.
 PR 22-JUN-1998; 98US-0090246P.
 PR 22-JUN-1998; 98US-0090252P.
 PR 22-JUN-1998; 98US-0090254P.

QY 292 CAGAGGCGCATCTCTGGGCTTCACTCTCTCTCCAGAGCACAAGGACTCTGGGTCTGAC 351
 Db 37 ----- 37
 QY 352 CTCACCTGTTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTCC 411
 Db 37 ----- 37
 QY 412 AGCAGAGAAAGAGTTCGAAGAGCCACAGCGCAAGCTGAGCCCGAGCTCTAGCAGCT 471
 Db 38 ----- 471
 QY 472 GCCTCCGCGCGAAGATCGAGTCTCAAGCAGAGGGCGAGAGTCAACTGGAGTCCCG 530
 Db 56 rpLeuArgproGluaspGlyGlyGlnAlaGluGlyAlaGluaspGluLeuGluValArg 75

RESULT 13
 ABUS9124
 ID ABUS9124 standard; protein; 117 AA.
 XX AC ABUS9124;
 XX DT 28-APR-2003 (first entry)
 XX DE Novel human secreted or transmembrane protein PRO1066.
 XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
 KW cardiac insufficiency disorder; cancer; tumour; immune response;
 KW adrenal cortical capillary endothelial growth; c-fos induction;
 KW vascular endothelial growth factor inhibition; VEGF inhibition;
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
 KW retinal neurons cell survival; rod photoreceptor cell survival;
 KW retinal disorder; retinitis pigmentosa; kidney disorder;
 KW mammalian kidney mesangial cell proliferation; Berger disease;
 KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
 KW chondrocyte redifferentiation; sports injury; arthritis.
 XX OS Homo sapiens.
 XX US2002132252-A1.
 XX PD 19-SEP-2002.
 XX PF 14-NOV-2001; 2001US-00990442.
 PR 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US020069.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088021P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 04-JUN-1998; 98US-0088028P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088030P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 05-JUN-1998; 98US-0088326P.
 PR 05-JUN-1998; 98US-0088167P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088217P.

PR 09-JUN-1998; 98US-0088655P.
 PR 10-JUN-1998; 98US-0088734P.
 PR 10-JUN-1998; 98US-0088738P.
 PR 10-JUN-1998; 98US-0088742P.
 PR 10-JUN-1998; 98US-0088810P.
 PR 10-JUN-1998; 98US-0088824P.
 PR 10-JUN-1998; 98US-0088826P.
 PR 11-JUN-1998; 98US-0088858P.
 PR 11-JUN-1998; 98US-0088861P.
 PR 11-JUN-1998; 98US-0088876P.
 PR 12-JUN-1998; 98US-0089105P.
 PR 16-JUN-1998; 98US-0089440P.
 PR 16-JUN-1998; 98US-0089512P.
 PR 16-JUN-1998; 98US-0089514P.
 PR 17-JUN-1998; 98US-0089532P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089588P.
 PR 17-JUN-1998; 98US-0089599P.
 PR 17-JUN-1998; 98US-0089600P.
 PR 17-JUN-1998; 98US-0089653P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 06-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 XX

(GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams FM, Wood WI;

PI Zhang Z;
 DR WPI; 2003-247083/24.
 XX N-PSDB; ABX80294.
 PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
 PT are therapeutically useful for enhancing immune response and in cancer
 PT treatments.
 XX
 PS Claim 12; Fig 186; 648pp; English.
 XX
 CC The invention describes an isolated human PRO polypeptide. The PRO
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
 CC in modulating at least one biological activity of a cell expressing a PRO
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
 CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
 CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
 CC useful for treating conditions or disorders where angiogenesis would be
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are
 CC useful for treating cancerous tumours. PRO812 inhibits vascular
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
 CC cells and is thus useful for inhibiting endothelial cell growth in
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
 CC PRO1068, PRO1184, and PRO1346 and PRO1375 stimulate proliferation of
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing
 CC immune responses. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
 CC rod photoreceptor cells) and therefore are useful for treating retinal
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
 CC and PRO1106 induce proliferation of mammalian kidney mesangial cells,
 CC and therefore are useful for treating kidney disorders associated with
 CC decreased mesangial cell function such as Berger disease or other
 CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
 CC proliferation and/or redifferentiation of chondrocytes in culture and are
 CC thus useful for treating sports injuries, and arthritis. This is the
 CC amino acid sequence of a novel human PRO protein
 XX
 SQ Sequence 117 AA;

Alignment Scores:
 Pred. No.: 4,93e-24 Length: 117
 Score: 326.00 Matches: 74
 Percent Similarity: 53.19% Conservative: 1
 Best Local Similarity: 52.48% Mismatches: 0
 Query Match: 31.65% Indels: 66
 DB: Gaps: 1

US-10-659-782A-11 (1-579) x ABU59124 (1-117)

QY	112	ATGCCCTCCCGAGGACCGTCTGCGATCTCTGCTCGGATGCTGCTGGCTGAGCTTG	171
Db	1	MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu	20
QY	172	GCCATGGCAGCTCCAGTCTCCTGAGCCCTGAACCCAGAGAGTCCAGGAGTGCACCTCC	231
Db	21	AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln-----	37
QY	232	CACAAAGCCCCACATGTTGTTCAGCCCTGCCACTTAGCAACCGACTCTGTGACCTGGAG	291
Db	37	-----	37
QY	292	CAGCAGCGCCATCTCTGGGCTTACGTCTTCTCCAGAGACAAAGGACTCTGGGCTGTGAC	351
Db	37	-----	37
QY	352	CTCACTGTTTCTGGAAGACATGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCCCTTCC	411
Db	37	-----	37

QY	412	AGCAGAGAAAGAGAGTCCGAGAGCCACGACCAAGCTGCAGCCCGAGCTCTAGCAGGCT	471
Db	38	-----ArgLysGluSerLysProProAlaLysLeuGlnProArgAlaLeuAlaGlyT	56
QY	472	GGCTCCGCGCCGAGAGTGGAGGTCAACAGCAGAGGGCAGAGGATGAAGTGAAGTCCGG	530
Db	56	rLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg	75
RESULT 14			
ID	ABU82636		
XX	ABU82636 standard; protein; 117 AA.		
AC	ABU82636;		
XX			
DT	26-JUN-2003 (first entry)		
XX			
DE	Human secreted/transmembrane protein PRO1066.		
XX			
KW	Human; PRO; secreted protein; transmembrane protein;		
KW	cardiac insufficiency disorders; angiogenesis; wound healing;		
KW	cancerous tumour; immune response; retinal disorder; sight loss;		
KW	retinitis pigmentosa; age-related macular degeneration; AMD;		
KW	kidney disorder; Berger disease; nephropathy; dermatitis; herpeticiformis;		
KW	Crohn's disease; sports injury; arthritis.		
XX			
OS	Homo sapiens.		
XX			
PN	US2003032023-A1.		
XX			
PD	13-FEB-2003.		
XX			
PF	14-NOV-2001; 2001US-00990711.		
XX			
PR	16-JUN-1997; 97US-0049787P.		
PR	17-OCT-1997; 97US-0062250P.		
PR	05-NOV-1997; 97WO-US020069.		
PR	12-NOV-1997; 97US-0065186P.		
PR	13-NOV-1997; 97US-0065311P.		
PR	24-NOV-1997; 97US-0066770P.		
PR	25-FEB-1998; 98US-0075945P.		
PR	20-MAR-1998; 98US-0078910P.		
PR	28-APR-1998; 98US-0083322P.		
PR	07-MAY-1998; 98US-0084600P.		
PR	28-MAY-1998; 98US-0087106P.		
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Alignment Scores:

Pred. No.: 4.93e-24
Score: 326.00
Percent Similarity: 53.19%
Best Local Similarity: 52.48%
Query Match: 31.65%
DB: 6

Length: 117
Matches: 74
Conservative: 1
Mismatch: 0
Indels: 66
Gaps: 1

US-10-659-782A-11 (1-579) x ABUS2636 (1-117)

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D 1 MetProSerProGlyThrValCysSerLeuLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCCATGCGAGCTCCAGCTCTCTGAGCCCTGACACACAGAGATCCAGGTGAGACCTCCC 231
D 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln---Gln----- 37
QY 232 CACAAAGCCACATGTTGTTCCAGCCCTGCCACTTAGCAACACAGCTCTGTGACCTGGAG 291
D 37 ----- 37
QY 292 CAGCAGCGCCATCTCTGGGCTTCAGTCTTCTCCAGAGACAAAGACTCTGGGTCTGAC 351
D 37 ----- 37
QY 352 CTCAGTCTTCTGGAAGCATCGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTCCCTCC 411
D 37 ----- 37
QY 412 AGCAGAGAAAGGAGTCAAGAACCCAGCCAGCTGCGAGCTCCAGCTCTAGCAGGCT 471
D 38 -----ArgLysGluSerLysLysProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGCTCCGCGGAGAGTGGAGGTCAAGCAGAGGGGAGAGATGAAGTGGAGTCCGG 530
D 56 rpLeuArgProGluAspGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

RESULT 15

ABO17836
ID ABO17836 standard; protein; 117 AA.
XX AC ABO17836;
XX AC
DT 26-AUG-2003 (first entry)
XX AC
DE Novel human secreted and transmembrane protein PRO1066.
XX Human; secreted and transmembrane protein; PRO; antinflammatory;
KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;
KW antidiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;
KW TNF-alpha release; cell proliferation; cell differentiation;
KW gene expression modulator; proteoglycan release; cytokine release;
KW tumour; inflammatory disease; organ failure; atherosclerosis;
KW cardiac injury; infertility; birth defect; premature aging; AIDS;
KW acquired immunodeficiency syndrome; cancer; diabetic complication;
KW chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;
KW bioindicator; tissue typing.
XX Homo sapiens.
XX OS
XX US2003032156-A1.
XX PN
XX 13-FEB-2003.
XX PD
XX PF
XX 06-MAY-2002; 2002US-00140474.
XX 31-MAR-1997; 97WO-US005230.
PR 12-JUN-1998; 98WO-US012456.
PR 14-JUL-1998; 98WO-US014552.
PR 28-AUG-1998; 98WO-US017888.
PR 10-SEP-1998; 98WO-US018824.
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PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
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PR 29-OCT-1998; 98WO-US022991.
PR 29-OCT-1998; 98WO-US022992.

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PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
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PR 20-DEC-1999; 99WO-US030999.
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PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
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PR 21-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US007532.
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PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
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PR 20-DEC-2000; 2000US-00747259.
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PR 28-FEB-2001; 2001US-00796498.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 09-MAR-2001; 2001US-00802706.
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PR 05-APR-2001; 2001US-00828366.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 18-MAY-2001; 2001US-00860216.
PR 25-MAY-2001; 2001US-00866028.
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PR 09-AUG-2001; 2001US-00927796.
PR 16-AUG-2001; 2001US-00931836.
PR 19-DEC-2001; 2001US-00028072.
XX (GETH) GENENTECH INC.
XX
PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-341980/32.
DR N-PSDB; ACD24073.
XX
XX New secreted and transmembrane PRO nucleic acids, for treating
PT inflammation, organ failure, atherosclerosis, cardiac injury,
PT infertility, birth defects, premature aging, acquired immunodeficiency
PT syndrome (AIDS), or cancer.
XX
XX Claim 12; Fig 442; 660pp; English.
XX
CC The invention describes an isolated nucleic acid (I) comprising, or which
CC has 80 % sequence identity to, or the full-length coding sequence of, one
CC of 275 nucleotide sequences, and which encodes a corresponding
CC polypeptide selected from 275 amino acid sequences, where all sequences
CC are given in the specification. The polypeptide encoded by (I) is used to
CC detect PRO polypeptides, link a bioactive molecule to a cell expressing a
CC PRO polypeptide, modulate a biological activity of a cell, stimulate the
CC release of tumour necrosis factor (TNF)-alpha from human blood, modulate
CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit
CC the proliferation or differentiation of cells or gene expression,
CC stimulate the release of proteoglycans, stimulate the release of cytokine
CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide
CC to factor VIIA, or detect the presence of tumour in a mammal. The nucleic
CC acid and polypeptide encoded by it, are useful for treating inflammatory
CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,
CC birth defects, premature aging, acquired immunodeficiency syndrome
CC (AIDS), cancer, or diabetic complications. The nucleic acid is useful as
CC hybridisation probes, in chromosome and gene mapping, and in generating
CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
CC This is the amino acid sequence of a novel human secreted and
CC transmembrane PRO polypeptide
XX
SQ Sequence 117 AA;

Alignment Scores:
Pred. No.: 4.93e-24 Length: 117
Score: 326.00 Matches: 74
Percent Similarity: 53.19% Conservative: 1
Best Local Similarity: 52.48% Mismatches: 0
Query Match: 31.65% Indels: 66
DB: 6 Gaps: 1

US-10-659-782A-11 (1-579) x ABO17836 (1-117)

QY 112 ATGCGCTCCCGGACCGCTCTCGAGCTCTCGCTCGGATGCTCTGGCTGGACTTG 171
Db 1 MetProSerProGlyThrValCysSerLeuLeuLeuGlyMetLeuTrpLeuAspLeu 20
QY 172 GCCATGGCAGGCTTCAGCTTCTCTGAGCCCTGAACACACAGAGAGTCCAGGTGAGACCTCC 231
Db 21 AlaMetAlaGlySerSerPheLeuSerProGluHisGlnArgValGln--Gln----- 37

QY 232 CACAAAGCCCCACATGTTGTTCCAGCCCTGCCACTTAGCAACCACTCTGTGACCTGGAG 291
Db 37 ----- 37
QY 292 CAGCAGCCCATCTCTGGGCTTCACTTCTCTCCAGAGACAAAGGACTCTGGGTCTGAC 351
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QY 352 CTCACCTGTTCTGGAAGGACATGGGGGCTTAGAGTCTCTAAACAGACTGTTTCCCTCC 411
Db 37 ----- 37
QY 412 AGCAGAGAAAGGAGTCTGAAGAAGCCACAGCCCAAGCTGCAGCCCGAGCTCTAGCAGGCT 471
Db 38 -----ArgGlySerLysProProAlaLysLeuGlnProArgAlaLeuAlaGlyT 56
QY 472 GGCTCCGCCCGGAGATGGAGTCAAGCAGAGGGGCGAGAGATGAACCTGGAAGTCCGG 530
Db 56 rpLeuArgProGluAspGlyGlyGlnAlaGluGlyAlaGluAspGluLeuGluValArg 75

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Job time : 124 secs

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